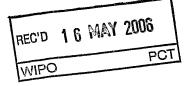
PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 15845PC TS FOR FURTHER ACTION See Form PCT/IPEA/416			T/IPEA/416				
International application No.	International filing date (day/n	month/year) P	riority date (day/month/year)				
PCT/FI2005/050091	18-03-2005		23-03-2004				
International Patent Classification (IPC) o		C					
See Supplemental Box	1 1141101141						
see suppremented bon							
Applicant							
Metso Paper, Inc. et	al						
This report is the international pro- Authority under Article 35 and to	eliminary examination report, examsmitted to the applicant acco	established by this lording to Article 36	International Preliminary Examining				
2. This REPORT consists of a total		luding this cover s					
Z. This test of the same state							
<u></u>		1 6	sheets, as follows:				
a (sent to the applican	t and to the International Bured	au) a total of					
and/or sheets	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the						
-t- acts which	ive Instructions).	which this Authorit	y considers contain an amendment that goes				
beyond the d	disclosure in the international ap	pplication as filed,	as indicated in item 4 of Box No. I and the				
Supplementa	al Box.						
b. (sent to the Internat	ional Bureau only) a total of (in	ndicate type and nu	mber of electronic carrier(s))				
	, containing a	sequence listing a	nd/or tables related thereto, in electronic				
form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications	relating to the following items:						
	of the report						
Box No. II Priori	ty						
Box No. III Non-e	establishment of opinion with re	egard to novelty, ir	nventive step and industrial applicability				
Box No. IV Lack	of unity of invention						
Box No. V Reaso	Li						
	in documents cited	••					
	in defects in the international ap	pplication	,				
Box No. VIII Certa	in observations on the internation	onal application					
Date of submission of the demand	D	ate of completion	of this report				
04-01-2006		1-04-2006					
Name and mailing address of the IPEA/SE		authorized officer					
Patent- och registreringsverket							
Box 5055 S-102 42 STOCKHOLM			livainio / JA A				
Facsimile No. +46 8 667 72 88	3 T	elephone No. +46	5 8 782 25 00				

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International application No.

PCT/FI2005/050091

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

International patent classification (IPC)

F16C 13/00 (2006.01)

D21F 3/10 (2006.01)

D21G 1/02 (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

International application No.

PCT/FI2005/050091

Box 1	No. I	Basis of the report					
1.	With 1	regard to the language, this report is based on:					
	the international application in the language in which it was filed						
		a translation of the international application into which is the language of a translation furnished for the purposes of:					
		international search (Rules 12.3(a) and 23.1(b))					
		publication of the international application (Rule	2.4(a))				
		international preliminary examination (Rules 55.2	(a) and/or 55.3(a))				
2.	furnis	shed to the receiving Office in response to an invitation und are not annexed to this report):	this report is based on (replacement sheets which have been ler Article 14 are referred to in this report as "originally filed"				
	\boxtimes	the international application as originally filed/furnished					
		the description:	11 C1 1/C				
		pages	ved by this Authority on as originally filed/furnished				
		pages	ved by this Authority on				
		pages	voi by this radiions, on				
		the claims:	as originally filed/furnished				
		pages	as amended (together with any statement) under Article 19				
		pages* recei	ved by this Authority on				
		pages	ved by this Authority on				
		the drawings:					
	L	pages	as originally filed/furnished				
1		pages* rece	ived by this Authority on				
		pages* rece	ived by this Authority on				
		a sequence listing and/or any related table(s) - see Suppl	emental Box Relating to Sequence Listing.				
3.	L	The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (spe	ecify):				
4.		This report has been established as if (some of) the armade, since they have been considered to go beyond the 70.2(c)).	mendments annexed to this report and listed below had not been ne disclosure as filed, as indicated in the Supplemental Box (Rule				
1		the description, pages					
		the claims, Nos.					
1		the drawings, sheets/figs					
1		the sequence listing (specify):					
		any table(s) related to the sequence listing (sp					
*	If i	item 4 applies, some or all of those sheets may be marked "s					

International application No.

PCT/FI2005/050091

Box No. V	Reasoned statement un citations and explanation	der Article 3 ons supporti	35(2) with regard to novelty, inventive step or industrial applicability; ng such statement	
1. States	ment Novelty (N)	Claims Claims	1-9	YES NO
I	inventive step (IS)	Claims Claims	3-5	YES NO
]	Industrial applicability (IA)	Claims Claims	1-9	YES NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 5785636 A D2: DE 29613795 U1 D3: WO 9958761 A1

D1 discloses an inner non-rotating structure of the roll of a papermaking machine press, the roll comprising a roll shell (14) comprised of composite material rotating around the inner structure (15).

The invention defined in claim 1 differs from the known structure in that instead of a roll shell comprised of composite material the structure is at least partly comprised of composite material.

However, D2 discloses a roll comprising a roll shell (10) connected to a rotating shaft (12, 32) at least partly comprised of composite material (refer to claims 1-4).

It would be obvious to a person skilled in the art to use the knowledge from document D2 to modify the structure according to document D1, thereby obtaining the invention defined in claim 1.

According to the arguments stated above, the invention defined in claim 1 is novel but is not considered to involve an inventive step.

D2 (refer to claim 3) also discloses the characterising part of claim 2.

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International application No.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,\,V\,$

Claim 2, therefore, lacks inventive step.

With knowledge of the above mentioned documents together with document D3, which discloses a suction roll comprising a shell (1) designed as a composite structure, claims 6-8 only contain such features which seem obvious to a person skilled in the art.

Claim 9 only seems to contain such technical features which a person skilled in the art would regard as normal design possibilities.

Claims 6-9, therefore, lack inventive step.

The invention defined in claims 3-5 is, however, novel, has industrial applicability and is considered to involve an inventive step.